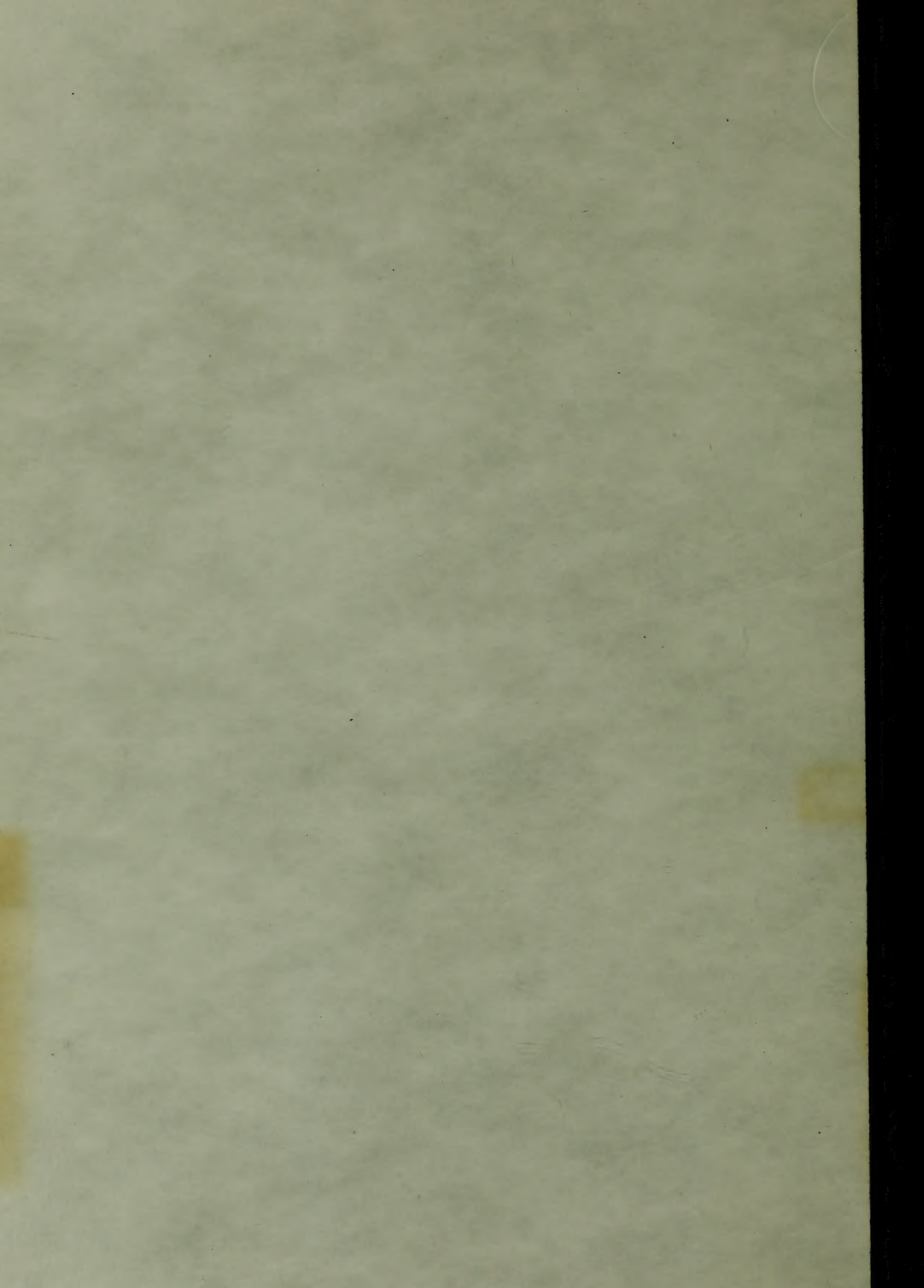


TH
5511
A33

CURRGDHT



Building Trade (Course of Study) C1

c. 1
EDUCATION CURRICULUM

CURRICULUM
EDUCATION LIBRARY
UNIVERSITY OF ALBERTA

DIVISION OF INDUSTRIAL
& VOCATIONAL EDUCATION

CANADIAN VOCATIONAL TRAINING

EDUCATION
CURRICULUM

DEPT. OF EDUCATION

CALGARY, ALBERTA

CURRICULUM GUIDE

UNIT COURSE OUTLINES

for

BRICKLAYING APPRENTICES

CURRICULUM

TH

5511

A33

CURR

Ex libris
UNIVERSITATIS
ALBERTAENSIS



LIBRARY
UNIVERSITY OF ALBERTA

UNIT COURSE OUTLINE COVERING THE TRAINING OF BRICKLAYING APPRENTICES

at the

CANADIAN VOCATIONAL TRAINING SCHOOL

Basic Year - 11 weeks (358 hours)

Senior Year - 4 weeks (130 hours)

Basic Year Bricklaying Apprentices

<u>Subject</u>	<u>Hours per week</u>	<u>Total hours</u>
Shopwork	15	165
Theory	11	121
Mathematics	1½	17
Drafting & Blueprint Reading	5	<u>55</u>
		358

Senior Year Bricklaying Apprentices

<u>Subject</u>	<u>Hours per week</u>	<u>Total hours</u>
Shopwork	11	44
Theory	15	60
Mathematics	1½	6
Drafting & Blueprint Reading	5	<u>20</u>
		130

BASIC YEAR BRICKLAYING APPRENTICES

SHOPWORK

(165 hours)

The care and use of tools. Job safety. Slaking lime, mixing and spreading mortar, laying brick, blocks, hollow tile, etc. Using a level, gauge rod, mason line, laying to and anchoring frames, bonds. Using wall ties, jointing, cutting material by hand and machine. Building leads and returns, building chimneys, piers and pilasters; using the 6-8-10 method. Beam filling, using a straight edge, testing sand, building simple arches.

THEORY

(121 hours)

Study of terms, names of tools, basic methods of laying materials. Safety. History of brickmaking, bonds and arches, manufacturing of lime, cement and brick. Types of materials for mortar. Methods for testing sand. Layout for gauge rods and story pole. Names of bonds, basic estimating, reason for trigs, names of arches, types of jointing, washing down buildings. Concrete formula for small jobs.

DRAFTING AND BLUEPRINT READING

How to use drafting instruments and equipment. Reason for blueprints. Symbols, conventional signs and abbreviations. Drawing different types of lines. Pencil drawings, inking and erasing. Basic plan reading, drawing bonds, combination walls, small building and house plans.

MATHEMATICS

(17 hours)

Adding, multiplying, subtracting and dividing fractions and decimals. Finding areas, square feet, cubic feet and cubic yards.

SENIOR YEAR BRICKLAYING APPRENTICES

SHOPWORK

(44 hours)

Laying walls, fireplaces, ornamental work and chimneys according to plan. Cutting flue lining, building in heat forms, arches and setting cut stone. Squaring a building, laying glass blocks, firebrick and ytong. Cutting material by machine. Using colour in mortar, cutting and placing flashing, laying quarry tile. Using a builders level. Designing, laying out and building a project.

THEORY

(60 hours)

Review of basic materials for combination walls, fireplace regulations. Safety. Action of heat forms, building code. How to work with other trades. Ornamental brickwork. Advanced estimating, balance and colour. How to protect cut stone. Shoring and bracing walls. The bench mark, swinging scaffold safety. Compensation lectures. Job costs, final examination.

DRAFTING AND BLUEPRINT READING

(20 hours)

Review of basic year. Drawing small building plans. Specifications, reading commercial building plans. Study of details. Taking off quantities. Designing and drawing own project.

MATHEMATICS

(6 hours)

Review of basic math, simple geometry. Approximate estimating. Final examination.

TH 5511 A33
ALBERTA DEPT OF EDUCATION
CANADIAN VOCATIONAL TRAINING
UNIT COURSE OUTLINES FOR
39317656 CURR HIST



000005189899

